

## **RAW SEQUENCE LISTING**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 101581,495  
Source: JFUO  
Date Processed by STIC: 4/27/07

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/10/581,495

DATE: 04/27/2007  
TIME: 11:12:19

Input Set : A:\2007-04-21 1254-0315PUS1.ST25.TXT  
Output Set: N:\CRF4\04272007\J581495.raw

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3 <110> APPLICANT: Hisatoshi SHIDA et al.
5 <120> TITLE OF INVENTION: HIGHLY SAFE SMALLPOX VACCINE VIRUS AND VACCINIA VIRUS VECTOR
7 <130> FILE REFERENCE: 1254-0315PUS1
9 <140> CURRENT APPLICATION NUMBER: US 10/581,495
10 <141> CURRENT FILING DATE: 2006-06-02
12 <160> NUMBER OF SEQ ID NOS: 13
14 <170> SOFTWARE: PatentIn Ver. 2.1
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 197
18 <212> TYPE: DNA
19 <213> ORGANISM: Vaccinia virus
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23 gattatgtct ctgaattata tgataagcca ttatacgaag tgaattccac catgacacta 120
24 agttgcaacg gcgaaacaaa atatttcgt tgcgaagaaa aaaatggaaa tacttcttgg 180
25 aatgatactg ttacgtg 197
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29 <211> LENGTH: 317
30 <212> TYPE: PRT
31 <213> ORGANISM: Vaccinia virus
33 <400> SEQUENCE: 2
34 Met Lys Thr Ile Ser Val Val Thr Leu Leu Cys Val Leu Pro Ala Val
35 1 5 10 15
37 Val Tyr Ser Thr Cys Thr Val Pro Thr Met Asn Asn Ala Lys Leu Thr
38 20 25 30
40 Ser Thr Glu Thr Ser Phe Asn Asp Lys Gln Lys Val Thr Phe Thr Cys
41 35 40 45
43 Asp Gln Gly Tyr His Ser Leu Asp Pro Asn Ala Val Cys Glu Thr Asp
44 50 55 60
46 Lys Trp Lys Tyr Glu Asn Pro Cys Lys Lys Met Cys Thr Val Ser Asp
47 65 70 75 80
49 Tyr Val Ser Glu Leu Tyr Asp Lys Pro Leu Tyr Glu Val Asn Ser Thr
50 85 90 95
52 Met Thr Leu Ser Cys Asn Gly Glu Thr Lys Tyr Phe Arg Cys Glu Glu
53 100 105 110
55 Lys Asn Gly Asn Thr Ser Trp Asn Asp Thr Val Thr Cys Pro Asn Ala
56 115 120 125
58 Glu Cys Gln Pro Leu Gln Leu Glu His Gly Ser Cys Gln Pro Val Lys
59 130 135 140
61 Glu Lys Tyr Ser Phe Gly Glu Tyr Met Thr Ile Asn Cys Asp Val Gly
62 145 150 155 160
64 Tyr Glu Val Ile Gly Ala Ser Tyr Ile Ser Cys Thr Ala Asn Ser Trp
65 165 170 175

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67 Asn Val Ile Pro Ser Cys Gln Gln Lys Cys Asp Met Pro Ser Leu Ser  
68 180 185 190  
70 Asn Gly Leu Ile Ser Gly Ser Thr Phe Ser Ile Gly Gly Val Ile His  
71 195 200 205  
73 Leu Ser Cys Lys Ser Gly Phe Thr Leu Thr Gly Ser Pro Ser Ser Thr  
74 210 215 220  
76 Cys Ile Asp Gly Lys Trp Asn Pro Ile Leu Pro Thr Cys Val Arg Ser  
77 225 230 235 240  
79 Asn Glu Lys Phe Asp Pro Val Asp Asp Gly Pro Asp Asp Glu Thr Asp  
80 245 250 255  
82 Leu Ser Lys Leu Ser Lys Asp Val Val Gln Tyr Glu Gln Glu Ile Glu  
83 260 265 270  
85 Ser Leu Glu Ala Thr Tyr His Ile Ile Ile Val Ala Leu Thr Ile Met  
86 275 280 285  
88 Gly Val Ile Phe Leu Ile Ser Val Ile Val Leu Val Cys Ser Cys Asp  
89 290 295 300  
91 Lys Asn Asn Asp Gln Tyr Lys Phe His Lys Leu Leu Pro  
92 305 310 315  
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98 <213> ORGANISM: Artificial Sequence  
100 <220> FEATURE:  
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116 gttaacactg tcgagcacta aaagg 25  
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121 <212> TYPE: DNA  
122 <213> ORGANISM: Artificial Sequence  
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125 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic DNA  
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133 <212> TYPE: DNA  
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157 <212> TYPE: DNA  
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167 <210> SEQ ID NO: 9  
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170 <213> ORGANISM: Artificial Sequence  
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187 <400> SEQUENCE: 10  
188 ataccatcg cgtaaaaagc gc 22  
191 <210> SEQ ID NO: 11  
192 <211> LENGTH: 24  
193 <212> TYPE: DNA  
194 <213> ORGANISM: Artificial Sequence  
196 <220> FEATURE:  
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203 <210> SEQ ID NO: 12  
204 <211> LENGTH: 24  
205 <212> TYPE: DNA  
206 <213> ORGANISM: Artificial Sequence  
208 <220> FEATURE:  
209 <223> OTHER INFORMATION: Description of Artificial Sequence:Synthetic DNA  
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212 tcaatgataa gttgcttcta acga 24

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215 <210> SEQ ID NO: 13  
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218 <213> ORGANISM: Artificial Sequence  
220 <220> FEATURE:  
221 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA  
223 <400> SEQUENCE: 13  
224 gatccgaaga atgatatccc 20

**VERIFICATION SUMMARY**

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